

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. **(Currently amended)** A stack plate-type heat exchanger ~~[[(1)]]~~, comprising a large number of plates (23, 24) which are in the form of troughs and are stacked one inside the other, of a first and of a second type, which, between them, form flow channels (25, 26) with a first height h for a first medium and with a second height H for a second medium, with the plates (23, 24) having rims which are raised on the circumference, are soldered to one another and have different heights for the first and for the second plate type, ~~characterized in that~~ wherein the first plate type ~~[[(23)]]~~ has a rim ~~[[(23a)]]~~ of height h1 with a flank angle α , and the second plate type ~~[[(24)]]~~ has a higher rim which is composed of at least three sections (24a, 24b, 24c) of height H1, H2 and H3, with the first rim section ~~[[(24a)]]~~ whose height is H1 and the third rim section ~~[[(24c)]]~~ whose height is H3 each having a flank angle α , while the second rim section ~~[[(24b)]]~~ whose height is H2 runs at right angles to the plate base ~~[[(24e)]]~~.

2. **(Currently amended)** The plate-type heat exchanger as claimed in claim 1, ~~characterized in that~~ wherein the plates of the first and of the second type (23, 24) are stacked alternately, so that adjacent flow channels (25, 26) have different channel heights h, H.

3. **(Currently amended)** The plate-type heat exchanger as claimed in claim 1, ~~characterized in that~~ wherein the ratio of the channel height H to the channel height h is in the range from 1.5 to 10.

4. **(Currently Amended)** The plate-type heat exchanger as claimed in claim 1, ~~characterized in that~~ wherein a second section ~~[[(23b)]]~~ with an insertion flank, a flank angle β and a height h2 is adjacent to the first rim section ~~[[(23a)]]~~ of the first plate type ~~[[(23)]]~~, where $\beta > \alpha$.

5. **(Currently Amended)** The plate-type heat exchanger as claimed in claim 1, ~~characterized in that~~ wherein a fourth section ~~[[(24d)]]~~ with an insertion flank, a flank angle β and a height H4 is adjacent to the third rim section ~~[[(24c)]]~~ of the second plate type ~~[[(24)]]~~.

6. **(Currently Amended)** The plate-type heat exchanger as claimed in claim 1, ~~characterized in that~~ wherein means for production of vortices ~~(6, 7)~~ are arranged between the plates ~~(2, 2a, 3, 3a)~~ and in the area of the flow channels ~~(4, 5)~~.